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Complete if Known Substitute for form 1449A/B/PTO Application Number 09/849,505-Conf. #8691 INFORMATION DISCLOSURE Filing Date May 4, 2001 Gregory J. Wilson STATEMENT BY APPLICANT First Named Inventor Art Unit 1741 (Use as many sheets as necessary) W. T. Leader Examiner Name 291958157US1 1 Attorney Docket Number Sheet

	U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No.1	Document Number Number-Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	
14.		US-6,773,571	08-10-2004	Mayer et al.		

		FOREI	GN PATENT	DOCUMENTS		
Examiner Initials*	Cite No.1	Foreign Patent Document Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T⁴
72/		JP-4311591	11-04-1992	Sumitomo Metal Ind. Ltd.		
7		JP-5195183-A	08-03-1993	Mitsubishi Electric Corp		
	-	JP-6017291-A	01-25-1994	NEC Corp		
		JP-6073598-A	03-15-1994	Suganuma Keiichiro		
		JP-6224202-A	08-12-1994	Oki Electric Ind Co. Ltd.		
		JP-7113159-A	05-02-1995	Canon Inc.		
		JP-7197299-A	08-01-1995	Casio Computer Co. Ltd.		
		JP-11036096-A	02-09-1999	NEC Corp		
A		JP-11080993-A	03-26-1999	Ebara Corp		

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. Applicants unique citation designation number (optional). See Kinds Codes of USPTO Patent Documents at www.usptm.gov or MPEP 901.04. Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. Nind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. Applicant is to place a check mark here if English language Translation is attached.

	NON PATENT LITERATURE DOCUMENTS						
Examiner Initials	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T²				
Q.		PATENT ABSTRACT OF JAPAN, "Organic Compound and its Application," Publication No. 08-003153, Publication Date: January 9, 1996					
Ph.		PATENT ABSTRACT OF JAPAN, English Abstract Translation - Japanese Utility Model No. 2538705, Publication Date: August 25, 1992					

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Examiner Signature	Komesh Patal	Date Considered	1/17/05

Applicant's unique citation designation number (optional). Applicant is to place a check mark here if English language Translation is attached.

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Sheet 1 of 10

Complete If Known				
Application Number	09/849,505-Conf. #8691			
Filing Date	May 4, 2001			
First Named Inventor	Gregory J. Wilson			
Art Unit	1741			
Examiner Name	W. T. Leader			
Attorney Docket Number	291958157US1			

xaminer	Cite No.1	Document Number Number-Kind Code ² (If known)	Publication Date MM-DD-YYYY	Name of Patentee o Applicant of Cited Docui		Pages, Columns, Lines, Whe Relevant Passages or Releva
R	110.					Figures Appear
K.E.		US-09/679,928		Woodruff et al.		
		US-1,526,644	02-17-1925			
$-\!$		US-1,881,713	10-11-1932			
		US-10/729,349		Klocke		
		US-10/729,357		Klocke		
		US-10/817,659		Wilson et al.		
\perp		US-2,256,274	09-16-1941	Boedecker et al.		
		US-2001-0024611		Daniel Woodruff		
		US-2001-0032788		Daniel Woodruff		
		US-2001-0043856	11-22-2001	Daniel Woodruff		
		US-2002-0008036	01-24-2002	Hui Wang		
\mathbf{I}^{-1}		US-2002-0008037	01-24-2002	Gregory Wilson		
		US-2002-0032499	03-14-2002	Gregory Wilson		
		US-2002-0046952		Lyndon Graham		
		US-2002-0079215	06-27-2002			<u> </u>
7		US-2002-0096508		Weaver et al.		
7		US-2002-0125141		Gregory Wilson		
		US-2002-0139678		Gregory Wilson		
1		US-2003-0038035		Gregory Wilson		
1 1		US-2003-0062258		Daniel Woodruff		
1 1		US-2003-0070918		Kyle Hanson		
1		US-2003-0127337		Kayle Hanson		
1 1		US-2004-0031693	02-19-2004			
1 -		US-2004-0055877	03-25-2004	Gregory Wilson	*********	
1		US-2004-0099533	05-27-2004	Gregory Wilson		
1 1		US-3,309,263	03-14-1967	Grobe		
+ +		US-3,616,284	10/1971	Bodmer et al.		
+ 1		US-3,664,933	05-23-1972			
		US-3,706,635	12-19-1972			
+		US-3,706,651	12-30-1970			
+			02-13-1973			
╂━┤		US-3,716,462 US-3,798,003	03-19-1974			
+			04-15-1975			
1		US-3,878,066		Polichette et al.		
+		US-3,930,963				
		US-3,968,885		Hassan et al.		
	•	US-4,000,046	12-28-1976			
+		US-4,022,679	05-10-1977		· · · · · · · · · · · · · · · · · · ·	
\dashv		US-4,030,015	10-20-1975		··· - · · · · · · · · · · · · · · · · ·	<u> </u>
		US-4,046,105	09-06-1977			
		US-4,072,557	02-07-1978			
\dashv		US-4,082,638	04-04-1978			
		US-4,113,577	09-12-1978			
			01-16-1976			
-1,-1		US-4,137,867	02-06-1979			
√ /		US-4,165,252	08-21-1979	Gibbs		ļ
<u> </u>		US-4,170,959	10-16-1979			
aminer gnature	1	Rancst	01	Q Dat	te nsidered	1/24/05

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Sheet 2 of 10

	Complete If Known				
Application Number	09/849,505-Conf. #8691				
Filing Date	May 4, 2001				
First Named Inventor	Gregory J. Wilson				
Art Unit	1741				
Examiner Name	W. T. Leader				
Attorney Docket Number	291958157US1				

124.	US-4,222,834	09-16-1980	Bacon et al.	
4	US-4,238,310	12-09-1980	Eckler et al.	
	US-4,246,088	01-20-1981	Murphy et al.	
	US-4,259,166	03-31-1981	Whitehurst	
	US-4,287,029	09-01-1981	KOUICHI SHIMAMURA	
1	US-4.304.641	12-08-1981	Grandia et al.	
	US-4,323,433	04-06-1982	DAVID M. LOCH	
	US-4,341,629	07-27-1982		
	US-4,360,410	11-23-1982	Fletcher et al.	
	US-4,378,283		MICHAEL SEYFFERT	
	US-4,384,930	05-24-1983		
	US-4,391,694		BENGT W. RUNSTEN	
	US-4,422,915		Wielonski et al.	
1	US-4,431,361	02-14-1984		
1	US-4,437,943	03-20-1984	ALEXANDER F. BECK	
1	US-4,440,597	04-03-1984	Wells et al.	·
1	US-4,443,117		Muramoto et al.	
	US-4,449,885	05-22-1984		
+	US-4,451,197	05/1984	Lange	
1	US-4,463,503		ROBERT D. APPLEGATE	
1	US-4,466,864		DUANE E. BACON	
	US-4,469,566	09-04-1984		
	US-4,475,823	10-09-1984		
	US-4,480,028	10-30-1984	<u> </u>	
	US-4,495,153		MINORU MIDORIKAWA	
	US-4,495,453		HAJIMU INABA	
1	US-4,500,394		JOHN S. RIZZO	
1	US-4,529,480	07-16-1985		
1 1	US-4,541,895	09-17-1985		
++-	US-4,566,847		TAKASHI MAEDA	
	US-4,576,685		Goffredo et al.	
1	US-4,576,689		ALMAXUD M. MAKKAEV	
	US-4,585,539	04-29-1986		
	US-4,604,177		OLIVO G. SIVILOTTI	
-+-	US-4,604,178		DALE R. FIEGENER	
	US-4,634,503	01-06-1987	DANIEL NOGAVICH	
	US-4,639,028	01/1987		
+	US-4,670,126	06/1987	Messer et al.	
++	US-4,685,414	08-11-1987		
-	US-4,687,552	08-18-1987		
++	US-4,693,017		Oehler et al.	
+	US-4,696,729	09-29-1987		
- - -	US-4,715,934	12-29-1987		
	US-4,741,624	05-03-1988		
	US-4,760,671		WILLIAM R. WARD	
	US-4,761,214	08-02-1988	EDMUND R. HINMAN	
 	US-4,770,590	09/1988	Hugues et al.	
1	US-4,781,800		LEE M. GOLDMAN	
- -	US-4,800,818		Kawaguchi et al.	

Examiner Signature	Remest	Patel	Date Considered	1 Lan los
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PTO/SB/08a/b (08-03)
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Sheet 3 of 10

	Complete If Known				
Application Number	09/849,505-Conf. #8691				
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First Named Inventor	Gregory J. Wilson				
Art Unit	1741				
Examiner Name	W. T. Leader				
Attorney Docket Number	291958157US1				

01			
120	US-4,828,654	05-09-1989	RONALD G. REED
	US-4,849,054	07-18-1989	Klowak
	US-4,858,539	08-22-1989	Schumann
	US-4,864,239	09-05-1989	Casarcia et al.
	US-4,868,992	09-26-1989	Crafts et al.
	US-4,898,647	02/1990	Luce et al.
	US-4,906,341	03-06-1990	KOJI YAMAKAWA
	US-4,913,035	08-02-1988	Vohringer et al.
	US-4,924,890	05-15-1990	Giles et al.
	US-4,944,650	07/1990	Matsumoto
	US-4,951,601	08-28-1990	Maydan et al.
	US-4,959,278	09-25-1990	HIDENORI SHIMAUCH
	US-4,962,726		Matsushita et al.
	US-4,979,464		Kunze-Concewitz et al.
	US-5,000,827		VIRGIL E. SCHUSTER
	US-5,024,746		Stierman et al.
	US-5,026,239	06-25-1991	<u> </u>
	US-5,048,589	09-17-1991	
	US-5,054,988	10-08-1991	
	US-5,055,036	 	Asano et al.
	US-5,061,144		MASAMI AKIMOTO
	US-5,069,548	12-03-1991	
	US-5,078,852		IAN Y.K. YEE
	US-5,083,364		Olbrich et al.
	US-5,096,550		STEVEN T. MAYER
	US-5,110,248		Asano et al.
\vdash	US-5,115,430		ELLEN L. HAHNE
	US-5,125,784	06-30-1992	
	US-5,128,912	07/1992	Hug et al.
———	US-5,146,136		TOSHIO OGURA
\square	US-5,151,168		TERRY L. GILTON
 - 	US-5,155,336		Gronet et al.
 	US-5,156,174		RAYMON F. THOMPSON
 	US-5,156,730		ANILKUMAR C. BHATT
 	US-5,168,886		Thompson et al.
 	US-5,168,887		RAYMON F. THOMPSON
 	US-5,169,408		Biggerstaff et al.
	US-5,172,803	12-22-1992	
1	US-5,174,045	01/1993	Thompson et al.
 	US-5,178,512	01-12-1993	
	US-5,178,639		Salaya et al.
	US-5,180,273 US-5,183,377		Becker et al.
 	US-5,186,594		Toshima et al.
 	US-5,209,817		UMAR M. AHMAD
 	US-5,217,586		MADHAV DATTA
 	US-5,222,310		RAYMON F. THOMPSON
 / 	US-5,227,041		BRUCE N. BROGDEN
 \\ 	US-5,228,232		RODNEY MILES
	103-3,226,232	101-20-1993	IVODIAL I MILES

Examiner Signature Randy Paral Date Considered 1/24/05

PTO/SB/08a/b (08-03)
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Examiner Name	W. T. Leader				
Attorney Docket Number	291958157US1				

00			
	US-5,228,966	07-20-1993	SATOSHI MURATA
1	US-5,230,371	07-27-1993	Lee
	US-5,232,511	08-03-1993	
	US-5,235,995	08-17-1993	Bergman et al.
	US-5,238,500	08-24-1993	
	US-5,252,137	10-12-1993	Tateyama et al.
h f	US-5,252,807	10-12-1993	
	US-5,256,262	10-26-1993	Blomsterberg
	US-5,256,274	10-26-1993	JAIME PORIS
	US-5,271,953	12-21-1993	Litteral
	US-5,271,972	12-21-1993	Kwok et al.
	US-5,301,700		Kamikawa et al.
	US-5,302,464	04-12-1994	TAKUJI NOMURA
	US-5,306,895	04-26-1994	Ushikoshi et al.
	US-5,314,294	09-24-1994	TAKAO TANIGUCHI
	US-5,316,642	05-31-1994	DAVID J. YOUNG
	US-5,326,455	07/1994	Kubo et al.
	US-5,330,604	07-19-1994	
	US-5,332,271	07-26-1994	Grant et al.
	US-5,332,445	07-26-1994	
	US-5,340,456	08-23-1994	
	US-5,344,491	09-06-1994	MARIKO KATOU
	US-5,348,620		Hermans et al.
	US-5,364,504		Smurkoski et al.
	US-5,366,785	11-22-1994	Sawdai
	US-5,366,786	11-22-1994	Connor et al.
	US-5,368,711	11-29-1994	JAIME PORIS
	US-5,372,848	12-13-1994	KIM J. BLACKWELL
	US-5,376,176	12-27-1994	ATSUSHI KURIYAMA
	US-5,377,708	01-03-1995	ERIC J. BERGMAN
	US-5,377,708	01-03-1995	Bergman et al.
	US-5,388,945	02-14-1995	Garric et al.
	US-5,391,285	02-21-1995	WILLIAM H. LYTLE
	US-5,391,517	02-21-1995	Gelatos et al.
	US-5,405,518	04-11-1995	Hsieh et al.
	US-5,411,076	05-02-1995	Matsunaga et al.
	US-5,421,987	06-06-1995	Tzanavaras et al.
	US-5,427,674	06-27-1995	Langenskiold et al.
	US-5,429,686	07-04-1995	
	US-5,429,733	07-04-1995	HIROFUMI ISHIDA
	US-5,431,803	07-11-1995	DiFranco et al.
	US-5,437,777		SHUJI KISHI
	US-5,441,629	08-15-1995	
	US-5,442,416		Tateyama et al.
	US-5,443,707	08-22-1995	
	US-5,445,484	08-29-1995	Kato et al.
	US-5,447,615	09-05-1995	Ishida
	US-5,454,405	10-03-1995	Hawes
Y	US-5,460,478	10-24-1995	Akimoto et al.

Examiner Signature Remobble Patel Date Considered 1/24/05			
	Ph 1471	1/24	1/05-



PTO/SB/08a/b (08-03)
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			PLICANT	First Named Inventor	Gregory J. Wilson	
				Art Unit	1741	
(Use as many sheets as necessary)			essary)	Examiner Name	W. T. Leader	
Sheet	5	of	10	Attorney Docket Number	291958157US1	

00				
12/1	US-5,464,313	11-07-1995	Ohsawa	
	US-5,472,502		WILLIAM T. BATCHELDER	
	US-5,489,341	02-06-1996	Bergman et al.	
	US-5,500,081	03-19-1996	Bergman	
	US-5,501,768	03-26-1996	Hermans et al.	
	US-5,508,095	04-16-1996	Allum et al.	
	US-5,512,319	04-30-1996	Cook et al.	
	US-5,514,258	05-07-1996	Brinket et al.	
	US-5,516,412	02-06-1996	Andricacos et al.	
	US-5,522,975	06/1996	Andricacos et al.	
	US-5,527,390	06-18-1996	Ono et al.	
	US-5,544,421	08-13-1996	Thompson et al.	
	US-5,549,808	08-27-1996	MUKTA S. FAROOQ	
	US-5,567,267		Kazama et al.	
	US-5,571,325		TSUTOMU UEYAMA	
	US-5,571,325	11-05-1996	Ueyama et al.	
	US-5,575,611	11-19-1996	Thompson et al.	
	US-5,584,310	12-17-1996	ERIC J. BERGMAN	
	US-5,584,971	12-17-1996		
	US-5,593,545	01-14-1997	Rugowski et al.	
	US-5,597,460	01-28-1997	H. VINCENT REYNOLDS	
	US-5,597,836		Hackler et al.	
	US-5,600,532	02-04-1997	Michiya et al.	
	US-5,609,239	03-11-1997	Schlecker	
	US-5,620,581	04-15-1997		
	US-5,639,206	06-17-1997	1	
	US-5,639,316		CYRIL CABRAL	
	US-5,641,613	06-24-1997	<u> </u>	
	US-5,650,082	07-22-1997		
	US-5,651,823	07-29-1997		
	US-5,658,387		TIMOTHY J. REARDON	
	US-5,658,387	08-19-1997	Reardon et al.	
$\sqcup \bot \bot$	US-5,660,472	08-26-1997	Peuse et al.	
	US-5,660,517	08/1997	Thompson et al.	
	US-5,662,788	09-02-1997	GURTEJ SANDHU	
	US-5,664,337	09-09-1997		
	US-5,670,034	09-23-1997	KENNETH J. LOWERY	
\vdash	US-5,676,337	10/1997	Giras et al.	•
\vdash	US-5,677,118	10-14-1997		
	US-5,678,320	10-21-1997		
\longrightarrow	US-5,678,320	10/1997	Thompson et al.	
	US-5,681,392	10-28-1997	EUGENE A. SWAIN	
 	US-5,683,564	11-04-1997		
$\vdash \vdash \vdash$	US-5,684,654	11-04-1997	Searle et al.	
\vdash	US-5,700,127	12-23-1997	JUNJI HARADA	
 	US-5,711,646	01/1998	Ueda et al.	
$\vdash + \vdash \vdash$	US-5,723,028		JAIME PORIS	
 W -	US-5,731,678	03-24-1998		
	US-5,744,019	04-28-1998	Ang	

Examiner Signature	Kamesh	Patel	Date Considered	1/24/05
	7			



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Complete if Known Substitute for form 1449A/B/PTO Application Number 09/849,505-Conf. #8691 **INFORMATION DISCLOSURE** Filing Date May 4, 2001 STATEMENT BY APPLICANT First Named Inventor Gregory J. Wilson 1741 Art Unit (Use as many sheets as necessary) Examiner Name W. T. Leader Sheet 6 of 10 Attorney Docket Number 291958157US1

01			
K.G.	US-5,746,565	05/1998	Tepolt
1	US-5,747,098	05-05-1998	
	US-5,755,948	05-26-1998	Lazaro et al.
	US-5,759,006	06/1998	Miyamoto et al.
	US-5,762,751	06-09-1998	MARTIN C. BLECK
	US-5,765,444		PAUL BACCHI
	US-5,765,889	06/1998	Nam et al.
	US-5,776,327	07-07-1998	Botts et al.
	US-5,785,826	07-28-1998	ALEX GREENSPAN
	US-5,788,829	08-04-1998	
	US-5,802,856		Schaper et al.
	US-5,829,791	11-03-1998	Kotsubo et al.
	US-5,843,296	12-01-1998	Greespan
	US-5,871,626	02-16-1999	DOUGLAS E. CRAFTS
	US-5,871,805	01-01-2001	JEROME LEMELSON
	US-5,882,498		VALERY DUBIN
	US-5,892,207		Kawamura et al.
	US-5,904,827	05-18-1999	Reynolds
	US-5,908,543	06-01-1999	TAKASHI MATSUNAMI
	US-5,925,227	07/1999	Kobayashi et al.
	US-5,932,077		H. VINCENT REYNOLDS
	US-5,937,142	08-10-1999	Moslehi et al.
	US-5,957,836	09-28-1999	
	US-5,980,706	11-09-1999	MARTIN BLECK
	US-5,985,126	11-16-1999	MARTIN C. BLECK
	US-5,989,406	11-23-1999	CHARLES P. BEETZ
	US-5,998,123		Tanaka et al.
	US-6,001,235	12-14-1999	
	US-6,004,828		KYLE M. HANSON
	US-6,017,820	01-25-2000	
	US-6,027,631		ELIOT K. BROADBENT
	US-6,053,687		THOMAS I. KIRKPATRICK
	US-6,072,160	06-06-2000	
	US-6,072,163		Armstrong et al.
\square	US-6,074,544		JONATHAN D. REID
\vdash	US-6,080,288		Schwartz et al.
	US-6,080,291		Woodruff et al.
\vdash	US-6,080,691		Lindsay et al.
 	US-6,086,680	07-11-2000	
 	US-6,090,260		SATOSHI INOUE
	US-6,091,498		KYLE HANSON
 	US-6,099,702		JONATHAN D. REID
 	US-6,099,712		THOMAS L. RITZDORF
	US-6,103,085	08-15-2000	
\vdash	US-6,107,192		Subrahmanyan et al.
 	US-6,108,937		Raaijmakers
	US-6,110,011		SASSON SOMEKH
├-V/- ├	US-6,110,346		JONATHAN D. REID
	US-6,130,415	10-10-2000	Knoot

	<u> </u>			
Examiner	,	7/ / //	Date	194100
		VITU		1 PLA 1 19 C
Signature	amesy	12/11	Considered	7 7 9
5.9.000	- J J	- 5-7-7-1		

PTO/SB/08a/b (08-03)
Approved for use through 07/31/2006. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE spond to a collection of information unless it contains a wild ONA

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Complete If Known					
Application Number	09/849,505-Conf. #8691				
Filing Date	May 4, 2001				
First Named Inventor	Gregory J. Wilson				
Art Unit 1741					
Examiner Name W. T. Leader					
Attorney Docket Number 291958157US1					

126 I	US-6,136,163	10-24-2000	ROBIN CHEUNG	
17	US-6,139,703		Hanson et al.	
	US-6,139,712		EVAN E. PATTON	
	US-6,140,234	10-31-2000		
		11-07-2000		
	US-6,143,147		JOHN A. ADAMS	
- - -	US-6,143,155		EVAN E. PATTON	
	US-6,156,167			
	US-6,157,106	12-05-2000	ROBERT J. CONTOLINI	<u> </u>
-+	US-6,159,354			
	US-6,162,344		JONATHAN D. REID	
\rightarrow	US-6,168,695		DANIEL J. WOODRUFF	
	US-6,174,425		CINDY R. SIMPSON	
	US-6,174,796		Takagi et al.	
	US-6,179,983		JONATHAN DAVID REID	
	US-6,184,068		Ohtani et al.	
	US-6,193,859		ROBERT J. CONTOLINI	ļ
	US-6,218,097	04-17-2001		
	US-6,221,230		HIROMITSU TAKEUCHI	
	US-6,228,232		DANIEL J WOODRUFF	<u> </u>
	US-6,234,738		KAZUO KIMATA	
	US-6,251,238		Kaufman et al.	
	US-6,251,528	06-26-2001		ļ
	US-6,254,742		Hanson et al.	
\bot	US-6,258,220		YEZDI DORDI	
-	US-6,261,433		UZIEL LANDAU	
	US-6,270,647		LYNDON W. GRAHAM	
\rightarrow	US-6,277,263		LINLIN CHEN	
\rightarrow	US-6,278,089		Young et al.	<u> </u>
\rightarrow	US-6,280,183		Mayur et al.	
	US-6,280,582		Woodruff et al.	ļ
	US-6,280,583		Woodruff et al.	
	US-6,297,154		Gross et al.	
	US-6,303,010		Woodruff et al.	
	US-6,309,520		Woodruff et al.	
-	US-6,309,524		Woodruff et al.	
	US-6,318,951		WAYNE J. SCHMIDT	
-	US-6,322,112		Franklin Duncan	
	US-6,322,677	11-27-2001	Daniel Woodruff	
-	US-6,342,137		Daniel Woodruff	
	US-6,365,729		Sanjay Tyagi	ļ
	US-6,391,166		HUI WANG	
	US-6,402,923		Steven Mayer	
	US-6,409,892		Woodruff et al.	
	US-6,428,660		Woodruff et al.	
$-\!$	US-6,428,662		Woodruff et al.	
	US-6,444,101		JOSEPH STEVENS	
	US-6,471,913		Weaver et al.	
\//	US-6,481,956		CHRISTOPHER A. HOFMEISTER	
	US-6,491,806	[12-10-2002	Valery Dubin	

Examiner Signature Rank	ch fatel	Date Considered	1/4/05
			

Substitute for form 1449A/B/PTO

Sheet

PTO/SB/08a/b (08-03)
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

8 of 10

Complete If Known				
Application Number	09/849,505-Conf. #8691			
Filing Date	May 4, 2001			
First Named Inventor	Gregory J. Wilson			
Art Unit	1741			
Examiner Name W. T. Leader				
Attorney Docket Number	291958157US1			

$-\Omega$	1	- Y	In the same of the	
156.	US-6,497,801		DANIEL J WOODRUFF	
	US-6,562,421	11-07-2002		
	US-6,565,729	01-24-2002		
	US-6,569,297	06-27-2002	Gregory Wilson	
	US-6,599,412	07-29-2003	Lyndon Graham	
	US-6,623,609	09-27-2001	Randy Harris	
	US-6,632,334	12-05-2002	Timothy Anderson	
	US-6,660,137	01-24-2002	Gregory Wilson	
	US-6,699,373	08-15-2002	Daniel Woodruff	
1.	US-6,709,562	01-01-2001	PANAYOTIS C. ANDRICACOS	
	US-6,755,954	06-29-2004	Mayer et al.	
	US-60/129,055		McHugh	
	US-60/143,769		McHugh	
	US-60/182,160		McHugh et al.	
	US-60/206,663		Wilson et al.	
	US-60/294,690		Gibbons et al.	
	US-60/316,597		Hanson	
17	US-60/607,046		Klocke	
	US-60/607,460		Klocke	

		FOREI	GN PATENT	DOCUMENTS	
N	ite o.	Foreign Patent Document Country Code ³ - Number ⁴ -Kind Code ⁶ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
+		CA-873651	06/1971	Cronin, DC	
		DE-195 25 666	10-02-1996	Huebsch et al.	
		DE-41 14 427	11-05-1992	Moritz, Heiko	
1"		EP-0 140 404 A1 ·	08-16-1984	The Proctor & Gamble Co.	
		EP-0 257 670	03-02-1988	Estham et al.	
1		EP-0 290 210	11-09-1988	Oki Electric Industry Co.	
十一		EP-0 677 612 A2	10-18-1995	Kimberly-Clark Corp.	
\top		EP-0 677 612 A3	10-18-1985	Kimberly-Clark Corp	
\top		EP-0 881 673 A2 -	05-08-1998	Intl Business Machines Corp	
1		EP-0 982 771 A1	08-17-1999	Lucent Technologies, Inc.	
\top		EP-0047132 B1	07-03-1985	Heraeus Quarzschmelze	
T		EP-0290210	11-09-1988	Oki Electric Industry Co.	
\top		EP-0452939 B1	11-02-2000	Applied Materials, Inc.	
		EP-0544311 B1	05-15-1996	Dainippon Screen Mfg. Co. Ltd	
1		EP-0582019 B1	10-18-1995	Intl Business Machines	
\top		EP-1 069 213 A2	07-11-2000	Applied Materials Inc.	
1		GB-2 254 288 A	03-24-1992	Scapa Group Pic	
1		GB-2 279 372A	06-23-1994	Kimberly-Clark Corp.	
		GB-2217107A	03-23-1989	Canon Kabushiki Kaisha	
7		JP-10-083960	03-31-1998	Takashi	
T		JP-1048442 ·	02-22-1989	Texas Instru Japan	
Т		JP-4144150	05-18-1992	Oki Electric Ind Co Ltd	
T		JP-5146984	06-15-1993	Murata Mach Ltd.	
7		JP-5211224	08-20-1993	Texan Instr Japan	
		WO-00/02675	01-02-2000	Semitool, Inc.	
er		Ramail Patel	'	Date Considered	1/24/05

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PTO/SB/08a/b (08-03)
Approved for use through 07/31/2006. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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Substitute for form 1449A/B/PTO				Complete if Known		
-		_		Application Number	09/849,505-Conf. #8691	
IN	IFORMATION	N DI	SCLOSURE	Filing Date	May 4, 2001	
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				Art Unit	1741	
	(Use as many sh	eets as	necessary)	Examiner Name	W. T. Leader	
Sheet	heet 9 of 10		Attorney Docket Number	291958157US1		

13	WO-00/02808	•	01-20-2000	Semitool, Inc.	
1	WO-00/02808 A1	•	01/2000	Semitool Inc.	
	WO-00/03072		01-20-2000	Woodruff et al.	
	WO-00/32835		06-08-2000	Dordi et al.	
	WO-00/61498		10-19-2000	Wilson et al.	
	WO-00/61837	•	10-19-2000	Wilson et al.	
	WO-01/46910	•			
	WO-01/90434	•	11-29-2001	Semitool, Inc.	
	WO-01/91163		11-29-2001	Semitool, Inc.	
	WO-02/02808	•	01-20-2000	Semitool, Inc.	
	WO-02/045476		06-13-2002	Semitool, Inc.	
	WO-02/097165		12-05-2002	Semitool, Inc.	
	WO-02/099165		12-12-2002	Semitool, Inc.	
	WO-02/17203	•			
	WO-02/97165		12-05-2002	Semitool, Inc.	
	WO-02/99165	•	12-12-2002	Semitool, Inc.	
1	WO-03/18874		09-03-2002	Semitool, Inc.	
	WO-90/00476		01-25-1990	Tuckerman	
	WO-91/04213	•	04-04-1991	Wong et al.	
	WO-95/06326	•	03-02-1995	Semitool, Inc.	
	WO-95/20064		07-27-1995	Berg	
	WO-99/16936	•	04-08-1996	Semitool, Inc.	
	WO-99/25904		05-27-1999	Reid et al.	
	WO-99/25905	•	05-27-1999	Patton et al.	
	WO-99/40615	•	08-12-1999	Ritzdorf et al.	
W/	WO-99/41434	•	08-19-1999	ACM Research, Inc.	
V	WO-99/45745		09-10-1999	Armstrong et al.	

		NON PATENT LITERATURE DOCUMENTS				
Examiner Initials	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.				
KI.		CONTOLINI ET AL., "Copper Electroplating Process for Sub-Half-Micron ULSI Structures," VMIC Conference 1995 ISMIC - 04/95/0322, pgs 322-328, June 17-29, 1995				
		DEVARAJ et al., "Pulsed Electrodeposition of Copper," Plating & Surface Finishing, Pgs 72-78, August 1992				
DUBIN, "Copper Plating Techniques for ULSI Metallization," Advanced MicroDevices						
		DUBIN, V.M., "Electrochemical Deposition of Copper for On-Chip Interconnects," Advanced MicroDevices				
		GAUVIN et al., "The Effect of Chloride Ions on Copper Deposition," J. of Electrochemical Society, Vol 99, pgs 71-75, February 1952				
		LEE, TiEN-YU TOM, "Application of a CFD Tool in Designing a Fountain Plating Cell for Uniform Bump Plating of Semiconductor Wafers," IEE Transactions on Components, Packaging, and Manufacturing Technology (February 1996), Vol. 19, No. 1, IEEE				
Examiner Signature		Remark Patal Date Considered 1/24/03				

PTO/SB/08a/b (08-03)

Approved for use through 07/31/2006. OMB 0551-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Complete if Known Substitute for form 1449A/B/PTO Application Number 09/849,505-Conf. #8691 INFORMATION DISCLOSURE Filing Date May 4, 2001 STATEMENT BY APPLICANT First Named Inventor Gregory J. Wilson 1741 Art Unit (Use as many sheets as necessary) W. T. Leader Examiner Name 10 291958157US1 Attorney Docket Number Sheet

1728 T	LOWENHEIM, F.A., "Electroplating," Jan 1979, 12 pgs, McGraw-Hill Book Company	
	LOWENHEIM, Frederick A., "Electroplating Electrochemistry Applied to Electroplating," 1978, pp 152-155, McGraw-Hill Book Company, New York	
	OSSRO, N.M., "An Overview of Pulse Plating," Plating and Surface Finishing, March 1986	
	PASSAL, F., "Copper Plating During the Last Fifty Years," Plating, pgs 628-638, June 1959	
	PATENT ABSTRACT OF JAPAN, "Partial Plating Device," Publication No. 01234590, Publication Date: Sept 19, 1989	
	PATENT ABSTRACT OF JAPAN, "Plating Method" Publication No. 57171690, Publication Date: October 22, 1982	
V	SINGER, P., "Copper Goes Mainstream: Low k to Follow," Semiconductor International, pgs 67-70, November 1997	_

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Oraw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ** CITE NO.: Those patent(s) or publication(s) which are marked with an double asterisk (**) next to the Cite No. are not supplied because they were previously cited by or submitted to the Office in a prior application refled upon in this application for an earlier filling date under 35 U.S.C. 120.

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		7 70		

^{&#}x27;Applicant's unique citation designation number (optional). ²Applicant is to place a check mark here if English language Translation is attached.